

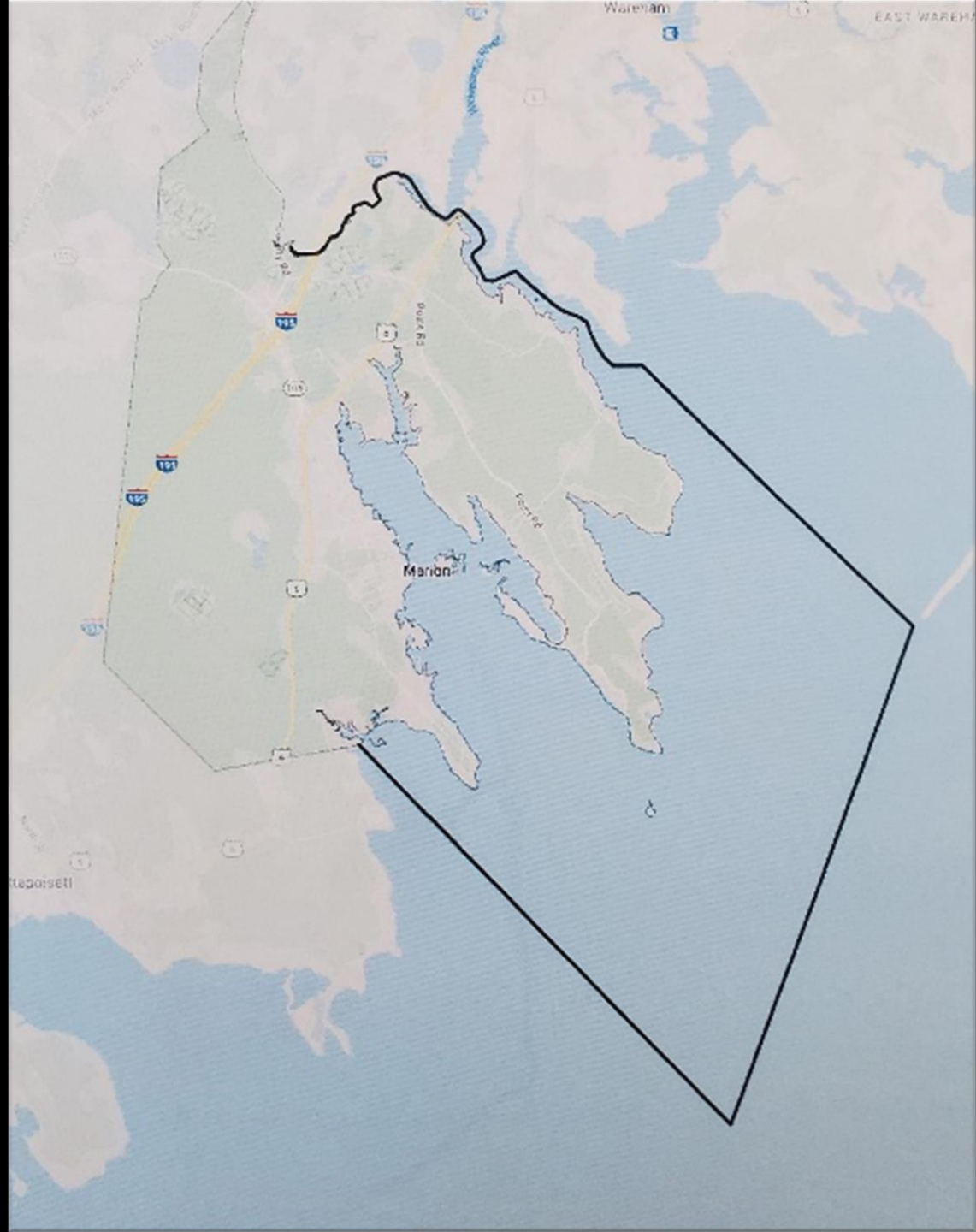
The background image shows a view from the deck of a boat. On the left, a large American flag is partially visible, waving. The foreground shows the white, textured surface of the boat's deck. In the distance, another boat is visible on the water, moving towards the right. The sky is a clear, deep blue.

# **MARION HARBORMASTER DEPARTMENT**

**OVERVIEW**

# Area of Responsibility (AOR)

- Town of Marion is a total of 26.1 square miles:
  - 14 square miles of land (54%)
  - 12.1 square miles of water (46%)
  - 26 miles of shoreline



# Personnel /Primary Equipment

- **Department Staff**
  - Harbormaster
  - Deputy Harbormaster / Shellfish Officer
  - Assistant Harbormaster
  - Administrative Assistant (Town Hall, Shared)
  - 3-4 Seasonal Employees (paid out of CVA reimbursement)
- **Vessels**
  - 27' Challenger Patrol Boat
  - 24' Stanley workboat
  - 23' Pump-out boat (75% grant funded)
  - 12x30 Work barge with hydraulic crane
- **Vehicles / Trailers**
  - 2019 Tahoe
  - 2016 F-250 (2)
  - Triple-axle boat trailer (Patrol and Workboat)
  - Dual-axle boat trailer (pump out vessel only)
  - Single-axle small boat trailer
  - Single-axle pump-out trailer
  - 20' Enclosed Utility Trailer

# Financial Overview (FY-21)

• Revenue collected	\$478,118.62
• Waterways Fund	\$317,513.57
• General Fund	\$160,605.05
• Expenses	\$467,813.33
• Salaries/Wages	\$214,323.00
• Expenses	\$47,300.00
• Indirect Costs	\$206,190.33

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# Financial Overview (FY18 – FY21)

Receipts			FY 18	FY 19	FY 20	FY 21
Mooring / Per Foot fees			\$ 243,447.00	\$ 281,558.50	\$ 275,198.00	\$ 279,975.50
Boat Excise (50% Waterways)			\$ 37,419.56	\$ 35,916.85	\$ 34,507.42	\$ 37,538.07
<b>Subtotal Waterways Account</b>			<b>\$ 280,866.56</b>	<b>\$ 317,475.35</b>	<b>\$ 309,705.42</b>	<b>\$ 317,513.57</b>
Boat Excise (50% General Fund)			\$ 37,419.56	\$ 35,916.85	\$ 34,507.42	\$ 37,538.07
Non Resident Parking			\$ 28,800.00	\$ 28,900.00	\$ 27,700.00	\$ 30,100.00
Dinghy/ Kayak Racks			\$ 5,170.00	\$ 6,805.00	\$ 6,610.00	\$ 7,030.00
Boat Berths			\$ 32,950.00	\$ 42,270.00	\$ 40,760.00	\$ 42,640.00
Citations					\$ 50.00	\$ 100.00
Personal Floats			\$ 21,293.00	\$ 18,550.00	\$ 17,610.00	\$ 20,150.00
Misc Receipts			\$ 14,819.48	\$ 8,391.60	\$ 3,934.00	\$ 12,169.48
Shellfish Permits			\$ 11,395.00	\$ 9,655.00	\$ 11,280.00	\$ 10,877.50
<b>Subtotal General Fund</b>			<b>\$ 151,847.04</b>	<b>\$ 150,488.45</b>	<b>\$ 142,451.42</b>	<b>\$ 160,605.05</b>
<b>Total Revenues</b>			<b>\$ 432,713.60</b>	<b>\$ 467,963.80</b>	<b>\$ 452,156.84</b>	<b>\$ 478,118.62</b>
Expenses						
Salaries / Wages			\$ 191,921.00	\$ 193,245.85	\$ 199,206.46	\$ 214,323.00
Expenses			\$ 47,148.50	\$ 48,246.73	\$ 42,701.80	\$ 47,300.00
Indirect Costs*			\$ 173,566.29	\$ 179,302.46	\$ 188,295.00	\$ 206,190.33
*Benefits, Shared Employees, Legal, Insurance, ect.						
<b>Total Expenses</b>			<b>\$ 412,635.79</b>	<b>\$ 420,795.04</b>	<b>\$ 430,203.26</b>	<b>\$ 467,813.33</b>

# **Training and Recertification (Initial Requirements)**

- **MPTC Recruit Officer Course** - 21 weeks (840 hours)
  - Prior to the Police Reform Act of 2020, the requirement was the Reserve/Intermittent Academy (490 hours)
  - Current Officers must attend “Bridge” Academy which is an additional 200 hours of training
- **Shellfish Constable Training Course** (80 hours)
- **USCG Captains License or completion of a USCG License Course** (minimum 80 hours classroom + 360 days documented sea time)



# **Training and Recertification (Additional Training)**

- **NASBLA/USCG/MEP/DEP**
  - Basic Boat Crewman Course (40)
  - Boating Under the Influence Course (24)
  - Officer Water Survival Course (16)
  - Boat Operator Search and Rescue (40)
  - DEP Oil Spill Response Course (8)
  - USCG ATON/PATON (12)
  - Laws Pertaining to Harbormasters (12)
  - Vessel Documents / Marine Theft (12)
  - Marine Medical Emergencies (12)



# **Training and Recertification (Annual/Bi-Annual Required Training)**

- **Annual**
  - MPTC In-service
  - First Aid / CPR / First Responder
  - Firearms Qualifications
  - MPD Policies and Procedures
- **Bi-Annual**
  - EMT (110 hour initial / 20 hour recert)
  - Hoisting License (hydraulics)



# Harbor Administrative Functions

- Annual invoicing of 1800 individual permits
- Excise list compilation for Assessors
- Mooring database (all vessels in town waters)
- Mooring management (assignments/boat increases/waiting lists/relocations/inspections...)
- Grant funding (Seaport/CVA/B-120 Spill)
- Annual reporting (CVA / DMF)
- Regulation review and updating
- Dock/Pier review and comments

# Shellfish Administrative Functions

- Commercial Permits (8)
- Recreational permits (365)
- Aquaculture permitting (5)
- Town permits  
(Propagation Program, Relays)
- Annual Reporting (DMF)
- Regulation review and updating
- Dock/Pier review and comments







## **Off Season Maintenance**

### **Vessel Maintenance**

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Annual maintenance on Department  
vessels, engines and equipment saves  
\$30-\$35,000 per year



## **Off Season Maintenance Dock Construction & Maintenance**

- 35 floats including mooring/piling systems
  - 28 of these floats were built in-house
- Replacement value is estimated \$250,000



# Off Season Maintenance

- 35 PATONs (Channel Markers / Speed / Rock / Anchorage / Swim Area / Moorings) including moorings systems for all
- Town Docks: water, electrical and pump out systems
- Department equipment (pumps for dewatering/firefighting (2) / pump out program(4) / medical bags / AEDs / PPE as well as lifesaving gear for all vessels, vehicles and docks
- HM Office and grounds including Public Bathrooms and Memorial Park



# Mobilization (Launching Season)

- All Department vessels, docks, floats, PATONs, equipment, water, pump out and power systems are installed beginning late March right through early June (except swim floats)
- Annual maintenance and or replacement of mooring systems (70 individual or 2000' of chain)
- All completed in house
  - Boatyard launch/haul cost is \$11 per foot for boats and \$300 per float
  - Saves Department \$24,000 in launch and haul costs per year (not including maintenance hauls or storms)





## Primary Law Enforcement Patrol Season (April – November)



Waterways Patrol (MGL CH 90B) and Shellfish Patrol (MGL CH 130)

- Incident Response (44 distress calls in 2021, 226 non distress calls)
- Enforcement of Local Regulations and By-Laws as well as MGL and CMRs
- Typical Patrol during peak months involves 5-6 vessel stops where corrective action needs to be taken
- Primary enforcement is education rather than violations (only 12 in 2021)





## **Primary Law Enforcement Patrol Season (April – November) (Continued)**

- Shore Patrols of Shellfish areas
- Aquaculture compliance checks  
(VIBRIO-DMF regulations)





## **Primary Law Enforcement Patrol Season (April – November) (Continued)**

- Parking and Littering issues associated shoreline access points (primary enforcement is associated with the recreational scup fishery in May and June)
- Maintenance and repairs as needed to all Department vessels, docks, floats and equipment



# Shellfish Propagation Program



- Annual grow out and seeding of 350,000 shellfish each year
- Just completed 5 year restoration project in conjunction with DMF on grant funded restoration efforts as a result of the 2003 B-120 Bouchard oil spill
  - 400Bu quahog relay (32,000lbs)
  - Oyster and quahog seed grow out, planting and monitoring
    - Shellfish programs also includes activities with ORR, Tabor, MNHM and various college internships from time to time



## **Clean Vessel Act Grant Program (Pump-out service)**

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- CVA Grant \$17,500 annual reimbursement (75% funded, 25% match)
- Provides pump-out services via Pump-out boat, dock stations and trailered system
- Annual reimbursement is utilized to fund all seasonal employees (20 week max)
- 900 boats per year resulting in 16,000 gallons that would otherwise be pumped overboard
- Available May - October



# Boating Safety Classes

- Department holds 2 state-approved boating education courses
- Two day classes are offered free of charge and are held in May and June
- Boating safety certificate meets MA licensing requirements
- Separate classes held for FD Personnel





# Facilities / Grounds Maintenance

- Office Rehab (built-in desks, windows and door replacement)
- Island Wharf Pump-house rebuild



# Facilities / Grounds Maintenance

## (Continued)

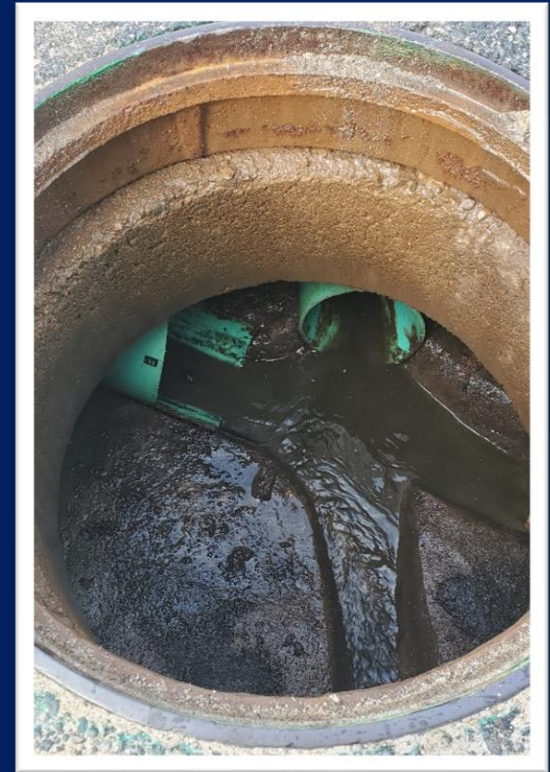
- Daily Office & Public Bathrooms cleaning, supplies and maintenance
- Parking lot construction
- Grass, tree and plant maintenance and pruning





# Facilities / Grounds Maintenance (Continued)

- Sewer line maintenance
- Retention pond maintenance



# Facilities / Grounds Maintenance (Continued)

- Memorial Park Maintenance
- Fence installation
- Dumpster/Trash issues





# Facilities / Grounds Maintenance (Continued)



- Kayak rack construction
- Parking enforcement



## **Assistance Provided to Other Agencies & Departments**

- Community Sailing Program
- Marion Recreation Programs
- Marion Natural History Museum
  - Maintenance
  - Stationing of the boats on both shore and moorings
  - On the water support (Safety Boat, Radios, Setting of Race Markers)





## **Assistance Provided to Other Agencies & Departments (Continued)**

- **Silvershell Beach**
  - Construction of Lifeguard Stands
  - Construction as well as annual installation and removal of Swim Floats
  - Installation of 1000' of swim-line and swim marker PATONs
  - Maintenance of all mooring systems on site





## **Assistance Provided to Other Agencies & Departments (Continued)**

- **Beverly Yacht Club**
  - Provide extra safety patrols for Regattas, Events and visiting Yacht Clubs
  - Boating safety speaking events
  - Flare Demonstration Events





**Assistance Provided to  
Other Agencies & Departments  
(Continued)**

- **Music Hall and Bandstand Events**
  - Parking coordination and enforcement
  - Bandstand Access Ramp





## **Assistance Provided to Other Agencies & Departments (Continued)**

- **MA Division of Marine Fisheries**
  - Water sampling to classify shellfish growing areas
- **MA Division of Fisheries and Wildlife**
  - Support, dockage and transportation of personnel and equipment for the Natural Heritage & Endangered Species Program (Bird Island Roseate Terns)



## **Assistance Provided to Other Agencies & Departments (Continued)**

- **July 4<sup>th</sup> Fireworks Events**
  - Marine Event Permit and coordinate with USCG
  - Installation of Fireworks barge mooring systems
  - Stationing and patrol of 200 +/- spectator vessels
  - Enforce the 1000' security zone around the barge

# **Assistance Provided to Other Agencies & Departments (Continued)**

- **Marion Police Department**
  - HM Staff are available to assist as needed: incident response, backup, mutual aid, ACO duties...
  - Escort of vessels and floats over public ways
  - Police Reform impact on Harbor Departments
- **Marion Fire Department**
  - Provide dockage and refueling for Fireboat
  - HM Staff assisted in acquiring the vessel and installed electronics package



# **Assistance Provided to Other Agencies & Departments (Continued)**

- **Mutual Aid**
  - Police, Fire and Harbor Departments for communities along Buzzards Bay
  - US Army Corps of Engineers (Bird Island & CC Canal)
  - MA Environmental Police
  - US Coast Guard
  - US Customs and Border Protection

# Training Exercises

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- MA DEP Oil spill exercises (GRP)
- USCG SAR exercises
- USCG Active Shooter Exercises (PD also)
- Tactical Operators Course (NASBLA)





# Meetings/ Affiliations

- Marion Marine Resources Committee (MRC)
- Harbormaster Training Council (HTC)
- Cape & Islands Harbormaster Association (CIHMA)
- MA Shellfish Officers Association (MSOA)
- National Association of State Boating Law Administrators (NASBLA)
- Municipal Police Training Committee (MPTC)
- US Coast Guard (USCG)
- US Army Corps of Engineers (USACE)
- Buzzards Bay Marine Task Force (BBTF)
- MA Environmental Police (MEP)
- MA Division of Marine Fisheries (DMF)
- Mass Wildlife (DFW)
- MA Department of Environmental Protection (DEP)
- Seaport Economic Council (SEC)
- National Oceanic and Atmospheric (NOAA)
- MA Audubon Society

# Storm Events

- Prior to storm event
  - Notifications to slip / rack permit holder to remove vessels (phone, email, social media page & website)
  - Removal of Department equipment, floats and vessels as needed
    - 3 days required to complete this task
    - ONLY possible because this operation is completed in-house
  - Check of all Mooring fields and vessels remaining on moorings for the storm
    - Identify and address any potential avoidable hazards or damage
    - Identify vessels that will be occupied during the storm event



# Storm Events

- During the storm event
  - Periodic checks with occupied vessels
  - Secure vessels, floats and debris washed ashore as needed / possible
  - Mitigate immediate and potential hazards as needed / possible





# Storm Events

- Aftermath
  - Mitigate immediate and potential hazards
    - Fuel spills
    - Vessels adrift
    - Vessels taking on water, swamped, sunk or overturned
  - Notification to Owners, Coast Guard and DEP
  - Dewatering of 50-60 smaller vessels (<16')
  - Documentation of vessels and property damaged
  - Reinstallation of Department floats, vessels and equipment

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# Demobilization (Hauling Season)

- All Department vessels/docks - floats/PATONs/equipment/dock water, pump out and power systems are removed during the month of November
- Annual maintenance and or replacement of mooring systems (70 individual or 2000' of chain)
- All completed in house (BY cost is \$11 per ft (HM=est \$1,200) and \$300 per float (HM=est \$10,500) or est \$24,000 just to launch and haul per year (not including maintenance hauls or storms)







# Winter Months on the Water

- Water Sampling
- Commercial Shellfishing and Aquaculture
- Mooring management
- Recreational use of the Waterways
- Hazards to Navigation
- Animal Control calls for Marine Life
- Maintain clear channel in and out when ice conditions are present
- Waterfowl Hunting (December – January)
  - No hunting within 500' of dwellings along the waterfront



# Winter Months on the Water

- Winter Storms increase the potential for damage to town docks and equipment and often require immediate repair
- Old Landing haul-out
  - Two of 3 pile chains failed
- Bird Island gangway
  - 1 of 2 mounting brackets failed
- Island Wharf pump-out discharge line
  - NE wave action combined with ice destroyed 130' of piping
- Maintenance of Bird Island Light





